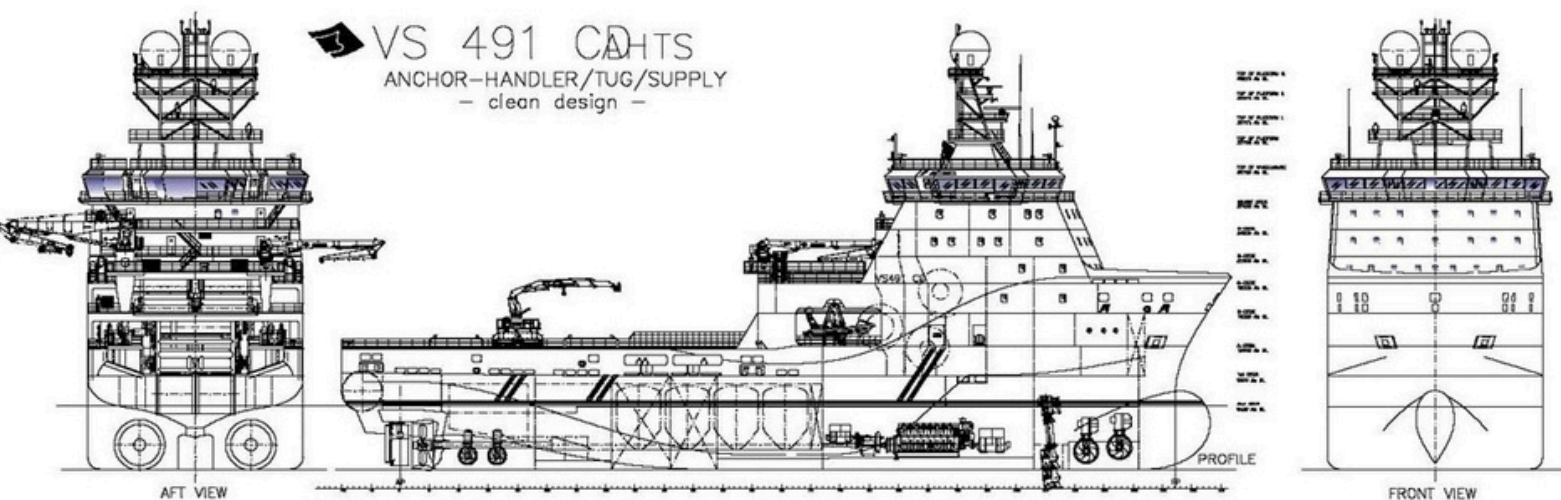


## SHIP'S PARTICULARS



### IMO NO. 9417684

Built	2009
Design	VS 491 CD
Flag	Norway
Class	DNV
Class	1A1 Supply vessel Tug BIS Clean(Design) COMF(V3) DK(+) DYNPOS(AUTR) E0 HL(2,5/2,8) Ice(C) NAUT(OSV(A)) OILREC SF TMON
DP Class	DP 2
Reference Systems	2x DGPS, 1x Radius, 1x SpotTrack, 1x HiPAP, 3x Gyro, 3x Wind Sensors, 2x VRS
Accommodation	60

### MAIN DIMENSIONS:

LOA	91m
Beam	22m
Gross Tonnage	7473t
Net Tonnage	2241t

### CARGO AREA:

Cargo Deck Area	813m <sup>2</sup>
Max Deck Load	1600t
Deck Strength	10t/m <sup>2</sup>

### SPEED:

Full Speed	60t/ day, 16 knots
Service Speed	22t/ day, 12 knots
ECO Speed	12t/ day, 9.5-10 knots

### CAPACITIES CARGO:

Special Product	189m <sup>3</sup>
Liquid Mud	647m <sup>3</sup>
Fuel Oil	1224m <sup>3</sup>
Fresh Water	1071m <sup>3</sup>
Dry Bulk	291m <sup>3</sup>
Ballast Water	2888m <sup>3</sup>

### MACHINERY AND PROPULSION:

Main Generator Sets	2 x Wartsila 16V32, 2 x 8000 kW 2 x 10720 bhp @ 750rpm
Main Generators	2 x AA NIR 7188, 2 x 3400kW @ 720rpm & 690V
Aux Engines GenSet	2 x CAT 3516C, 2 x 2100 kW 2 x 2814 bhp @ 1800rpm
Electric Propulsion Engines (PTI)	2 x AA QD 560, 2 x 1600kW 2 x 2144 bhp @ 800rpm DE-mode
Propellers	2 x CPP LIPS dia4.2m 2 x 9215kW @ 144rpm
Bow Thrusters	2 x Tunnel Thruster, Brunvoll, 2 x 1000 kW 2 x 1340 bhp @ 273rpm
Bow Azimuth Thruster	Azimuth Thruster, Brunvoll, 1 x 830 kW 1112 bhp @ 364rpm
Stern Thrusters	2 x Tunnel Thruster, Brunvoll, 2 x 880 kW 2 x 1179 bhp @ 280rpm

### CRANE:

Gantry Crane:	
Triplex MDH, Travelling Gantry Crane 42 t for Safe Anchor Handling and Cargo Operations 4,75m Opening Underneath	
Triplex MDH Palfinger	SWL 27,5t. Max Radius 22,5m 2400 kg
Triplex MDH Manipulator Crane	SWL 2,0t @ Radius 4,7m. Max Swing Radius 5,5 m
Triplex MDH Winch	SWL Max 22,0t. 72m dia32mm Wire
Triplex MDX Wire Clamp	dia60 - 100mm, Clamping Force 9t
Deck Crane STB	Hydramarine 3t@15m
Deck Crane PS	Hydramarine 10t@18m

### WINCHES AND WIRES:

Anchor Handling / Towing Winch	Brattvaag SL500W3 – Waterfall Type
AH Winch Line Pull	500t @ 16,7m/min (1st layer)
AH Winch Brake Load	550t (first layer)
AH Winch Drum Capacity	7700m dia76mm
AH Wire on Board	2500m dia90mm
Tow/Work Winch Line Pull	500t @ 17,5m/min (1st layer)
Work Winch Brake Load	750t (first layer)
Tow/Work Winch Drum Capacity	2 x 4600m dia76mm
Tow Wire on Board	2 x 4600m dia76mm
Work Wire on Board	300m dia86mm
Secondary Winch	2 x Brattvaag ALM63170U
Secondary Winch Line Pull	170t @ 23m/min (1st layer)
Secondary Winch Break Load	200t Dynamic Breaking at 70m/min
Secondary Winches Drum Capacity	2 x 3100m dia160mm Synthetic or 2 x 1600m dia203mm Synthetic or 2 x 5000m dia76mm Wire

### AH DECK EQUIPMENT:

Towing Pins	RR, 2 x 250t SWL
Pop-Up Pins	RR, 2 x 220t SWL
Shark Jaws	RR, 2 x 800t SWL
Stern Roller	Double Stern Roller: 2 x dia4000mm
Tugger Winches	2 x 24t Pull
Capstans	2 x 14t Pull Located
Spooling Sheave	RR, ID dia1400mm, max dia90mm Wire, max dia125mm Chain. Max Combined Forces 100t.

### FRC:

Mob Boat	MP Weedo 700 FRC 12 pers
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